BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of MPED Building (Govt School) At Jalahalli Village in Ward No.16

Measurement Sheet

First and Part

Item No:	1
Item Name:	Clearing grubbing road lane including up rooting rank vegitation , grass , brush , shrubs , sapling & trees of girth up to 300mm by manual means, in area of light jungle , removal of stumps , disposal of un serviceabale materials , stacking of serviceabale materials with in a lead of 100 mtr from road boundary , labour charges complete as per specifications

	CHAINAGE / Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
	Site Area	1	23.85	35.90	24.10	30.00	-	715.50	
							Total Qty Work Done	**715.50**	**Sqm**
							Qty Limited Payable in this bill	**700.00**	**Sqm**

Contractor Representative

Consultant Representative

Assistant Engineer
RR Nagar (Project)

Asst.Executive Engineer
RR Nagar (Project)

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BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of MPED Building (Govt School) At Jalahalli Village in Ward No.16

Measurement Sheet

First and Part

Item No:	2	
Item Name:	Dismanteling of Exsisting structures like Culverts, Bridges, retaining wall & other structures compraising of masanry, cement concrete, wood work, steel work including T& P and scaffolding wherever necessary, sorting the Dismentalled metrial,disposoble of unserviceble material & stacking servicable material with lead of 1000 mts, complete as per specification 1.) Lime concrete/ Cement Concrete -KSRRB M200- 13.1 - do- II by mechanicaal means A cement Concrete Grade M 15- M20	

	CHAINAGE / Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
	Building	1	40.00	5.50	5.50	5.50	0.15	33.00	
		1	50.00	6.00	6.00	6.00	0.15	45.00	
		1	5.00	9.00	9.00	9.00	0.15	6.75	
							Total Qty Work Done	**84.75**	**Cum**
							Qty Payable in this bill	**84.75**	**Cum**

CIVIL QUALITY CONSULTANTS & ENGINEERS Bangalore

Contractor Representative

Consultant Representative

Assistant Engineer
RR Nagar (Project)

Asst.Executive Engineer
RR Nagar (Project)

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BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of MPED Building (Govt School) At Jalahalli Village in Ward No.16

Measurement Sheet

First and Part

Item No:	3	
Item Name:	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications.KSRRB M200-14.2. –do– Dismantling brick/Tile work B. In cement mortar. MORTH Specification No. 202	

	CHAINAGE / Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
	Building	1	100.00	0.23	0.23	0.23	3.00	69.00	
		1	100.00	0.23	0.23	0.23	3.00	69.00	
							Total Qty Work Done	**138.00**	**Cum**
							Qty Payable in this bill Up to 125 %	**16.96**	**Cum**
							Qty Payable in this bill Above 125 %	**121.04**	**Cum**

CIVIL QUALITY CONSULTANTS & ENGINEERS Bangalore

Contractor Representative

Consultant Representative

Assistant Engineer
RR Nagar (Project)

Asst.Executive Engineer
RR Nagar (Project)

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BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of MPED Building (Govt School) At Jalahalli Village in Ward No.16

Measurement Sheet

First and Part

Item No:	4	
Item Name:	Dismanteling of Exsisting structures like Culverts, Bridges, retaining wall & other structures compraising of masanry, cement concrete, wood work, steel work including T& P and scaffolding wherever necessary, sorting the Dismentalled metrial,disposoble of unserviceble material & stacking servicable material with lead of 1000 mts, B13 complete as per specification !!!) Dismanteling of Stone masonary MORTH Specification 202	

	CHAINAGE / Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
	Foundation	1	100.00	0.60	0.60	0.60	0.60	36.00	
	2 Course	1	200.00	0.45	0.45	0.45	0.45	40.50	
		1	200.00	0.45	0.45	0.45	0.23	20.70	
							Total Qty Work Done	**97.20**	**Cum**
							Qty Payable in this bill	**97.50**	**Cum**

Assistant Executive Engineer
R.R. Nagar Project Sub-Division-04
Bruhat Bengaluru Mahanagara Palike

Contractor Representative

CIVIL QUALITY CONSULTANTS & ENGINEERS Bangalore

Consultant Representative

Assistant Engineer
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Asst.Executive Engineer
RR Nagar (Project)

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BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of MPED Building (Govt School) At Jalahalli Village in Ward No.16

Measurement Sheet

First and Part

Item No:	5
Item Name:	Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width in IN ORDINARY SOIL not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m. after breaking of clods complete as per specifications.

	CHAINAGE / Land Mark	NO	L (m)	B_1 (m)	B_2 (m)	Avg B (m)	D (m)	QTY	REMARKS
	For Foundation								
	F1	4	2.60	2.40	2.40	2.40	1.00	24.96	
	F2	2	2.80	3.00	3.00	3.00	1.00	16.80	
	F3	3	2.90	3.20	3.20	3.20	1.00	27.84	
	F4	6	3.30	3.60	3.60	3.60	1.00	71.28	
	F5	2	3.60	3.80	3.80	3.80	1.00	27.36	
	F6	1	4.20	4.00	4.00	4.00	1.00	16.80	
	F7	1	2.45	3.00	3.00	3.00	1.00	7.35	
	Retaining Wall	1	47.30	2.10	2.10	2.10	1.15	114.23	
	For Stair Case	1	1.90	0.80	0.80	0.80	0.45	0.68	
							Total Qty Work Done	**307.30**	**Cum**
							Qty Payable in this bill	**307.30**	**Cum**

Contractor Representative

Consultant Representative

Assistant Engineer
RR Nagar (Project)

Asst.Executive Engineer
RR Nagar (Project)

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BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of MPED Building (Govt School) At Jalahalli Village in Ward No.16

Measurement Sheet

First and Part

Item No:	6	
Item Name:	Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width in IN HARD SOIL not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m. after breaking of clods complete as per specifications.	

	CHAINAGE / Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
	For Foundation								
	F1	4	2.60	2.40	2.40	2.40	0.40	9.98	
	F2	2	2.80	3.00	3.00	3.00	0.40	6.72	
	F3	3	2.90	3.20	3.20	3.20	0.40	11.14	
	F4	6	3.30	3.60	3.60	3.60	0.40	28.51	
	F5	2	3.60	3.80	3.80	3.80	0.40	10.94	
	F6	1	4.20	4.00	4.00	4.00	0.40	6.72	
	F7	1	2.45	3.00	3.00	3.00	0.40	2.94	
	Retaining Wall	1	47.30	2.10	2.10	2.10	0.30	29.80	
							Total Qty Work Done	**106.76**	**Cum**
							Qty Payable in this bill	**106.76**	**Cum**

CJE

Assistant Executive Engineer
R.R. Nagar Project Sub-Division
Bruhat Bangalore Mahanagara Palike

106.75

CIVIL QUALITY CONSULTANTS & ENGINEERS Bangalore

Contractor Representative

Consultant Representative

351

B.K.

Assistant Engineer
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Asst.Executive Engineer
RR Nagar (Project)

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BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of MPED Building (Govt School) At Jalahalli Village in Ward No.16

Measurement Sheet

First and Part

Item No:	7
Item Name:	KSRB 2-2.3 : Excavation by manual means for foundation of buildings, water supply & sanitary lines and electrical conduits etc., either in pits or in trenches 1.50m and above in width, in soft rock not exceeding 1.50mtrs in depth including stacking the excavated stuff clear from edges of excavation with lead upto 50mt including cost of explosives, labour, HOM of equipment complete as per specifications.

	CHAINAGE / Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
	For Foundation								
	F1	4	2.60	2.40	2.40	2.40	0.18	4.49	
	F2	2	2.80	3.00	3.00	3.00	0.18	3.02	
	F3	3	2.90	3.20	3.20	3.20	0.18	5.01	
	F4	6	3.30	3.60	3.60	3.60	0.18	12.83	
	F5	2	3.60	3.80	3.80	3.80	0.18	4.92	
	F6	1	4.20	4.00	4.00	4.00	0.18	3.02	
	F7	1	2.45	3.00	3.00	3.00	0.18	1.32	
	Retaining Wall	1	47.30	2.10	2.10	2.10	0.13	12.91	
							Total Qty Work Done	**47.54**	**Cum**
							Qty Limited Payable in this bill	**47.54**	**Cum**

Contractor Representative

CIVIL QUALITY CONSULTANTS ENGINEERS Bangalore

Consultant Representative

Assistant Executive Engineer R.R. Nagar Project Su... Bruhat Bangaluru M...

Assistant Engineer
RR Nagar (Project)

Asst.Executive Engineer
RR Nagar (Project)

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BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of MPED Building (Govt School) At Jalahalli Village in Ward No.16

Measurement Sheet

Item No:	8	First and Part
Item Name:	Earth work for lowering & levelling the ground other than foundation works by Mechanical means upto 3.0 mt depth including providing shoring stutting and bracing , removal of stumps and other and other deleterious matter, dressing of sides and bottom, filling back the excavated earth to the extent required and utilising /transporting the remaining earth upto 1.00km lead. including cost of labour, materials and HOM of machineries etc., complete.	

	CHAINAGE / Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
	Basement Excavation								
	Area 1	1	14.83	12.10	12.10	12.10	2.60	466.55	
	Area 2	1	5.40	1.15	1.15	1.15	2.60	16.15	
	Area 3	1	7.79	2.50	2.50	2.50	2.60	50.64	
	Area 4	1	11.95	6.00	6.00	6.00	2.60	186.42	
	Area 5	1	92.69				2.60	240.99	
	Area 6	1	12.90				2.60	33.54	
	Deduction								
	Duct	-1	1.5	1.3	1.3	1.3	2.60	-5.07	
							Total Qty Work Done	**989.22**	**Cum**
							Qty Payable in this bill Upto 125 %	**56.88**	**Cum**
							Qty Payable in this bill Above 125 %	**932.34**	**Cum**

CJFC

Assistant Executive Engineer
R.R. Nagar Project Sub-Division-2
Bruhat Bengaluru Mahanagara Palike

QUALITY CONSULTANTS & ENGINEERS Bangalore

Contractor Representative

Consultant Representative

Assistant Engineer
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RR Nagar (Project)

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BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of MPED Building (Govt School) At Jalahalli Village in Ward No.16

Measurement Sheet

First and Part

Item No:	9
Item Name:	KSRB 3.2: Providing and injecting chemical emulsion for Pre-constructional Anti-Termite Treatment, creating continuous chemical barrier under and around the column pits, walls, trenches, basement excavation, top surface of the plinth filling, junction of wall and floor,along the external perimeter of building,expansion joints,over the top surface of consolidated earth on which apron is to be laid,surrounding of pipes and conduits with chloropyriphos emulsifiable concentrates of 20% concentration,including cost of chemical,diluting in water to one percent concentration, labour, HOM of equipments, complete as per specifications.

	CHAINAGE / Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
	Basement Floor								
	Plinth Beam								
	P1	1	5.00	0.90	0.90	0.90		4.50	
	P2	1	10.70	0.90	0.90	0.90		9.63	
	P3	1	17.70	0.90	0.90	0.90		15.93	
	P4	1	5.50	0.90	0.90	0.90		4.95	
	P5	1	7.95	0.90	0.90	0.90		7.16	
	P6	1	11.50	0.90	0.90	0.90		10.35	
	P7	1	18.65	0.90	0.90	0.90		16.79	
	P8	1	15.50	0.90	0.90	0.90		13.95	
	Foundation								
	F1	4	10.00				1.50	60.00	
	F2	2	11.60				1.50	34.80	
	F3	3	12.20				1.50	54.90	
	F4	6	13.80				1.50	124.20	
	F5	2	14.80				1.50	44.40	
	F6	1	16.40				1.50	24.60	

Assistant Executive Engineer
R.R. Nagar Project Sub Division-01
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	CHAINAGE	NO	L	B	B1	Avg B	D	QTY	REMARKS
	Land Mark		(m)	(m)	(m)	(m)	(m)		
	F7	1	10.90				1.50	16.35	
							Total Qty Work Done	442.50	sqm
							Qty Payable in this bill	442.50	sqm

Contractor Representative

CIVIL QUALITY CONSULTANTS & ENGINEERS Bangalore

Consultant Representative

Assistant Engineer
RR Nagar (Project)

Asst.Executive Engineer
RR Nagar (Project)

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BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of MPED Building (Govt School) At Jalahalli Village in Ward No.16

Measurement Sheet

First and Part

Item No:	10
Item Name:	KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications, including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density. MORTH Specification No. 305

	CHAINAGE / Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
	Soil Filling For Basement								
	F1	4	2.60	2.40	2.40	2.40	0.93	23.09	
	F2	2	2.80	3.00	3.00	3.00	0.85	14.28	
	F3	3	2.90	3.20	3.20	3.20	0.80	22.27	
	F4	6	3.30	3.60	3.60	3.60	0.65	46.33	
	F5	2	3.60	3.80	3.80	3.80	0.60	16.42	
	F6	1	4.20	4.00	4.00	4.00	0.58	9.66	
	F7	1	2.45	3.00	3.00	3.00	0.85	6.25	
	Retaining Wall	1	47.90	1.50	1.50	1.50	1.20	86.22	
	For Stair Case	1	1.90	0.80	0.80	0.80	0.13	0.19	
	Area 1	1	14.83	12.10	12.10	12.10	0.10	17.94	
	Area 2	1	5.40	1.15	1.15	1.15	0.10	0.62	
	Area 3	1	7.79	2.50	2.50	2.50	0.10	1.95	
	Area 4	1	11.95	6.00	6.00	6.00	0.10	7.17	
	Area 5	1	92.69				0.10	9.27	
	Area 6	1	12.90				0.10	1.29	
	Deduction								

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Bruhat Bengaluru Mahanagara Palike

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	CHAINAGE / Land Mark	NO	L (m)	B (m)	B1 (m)	Avg B (m)	D (m)	QTY	REMARKS
	Duct	-1	1.5	1.3	1.3	1.3	0.10	-0.20	C/F
							Total Qty Work Done	262.75	Cum
							Qty Limited Payable in this bill	262.75	Cum

Contractor Representative

Consultant Representative

Assistant Engineer
RR Nagar (Project)

Asst.Executive Engineer
RR Nagar (Project)

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